

Predicting a place to open a clothing store in Toronto neighbourhood.

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1. Introduction:

A person is trying to open a clothing store in neighbourhood of Toronto and is looking in for some places where it would be good to open. Before opening a clothing store, it is better to know about the places where there is a demand for such store. It is also good to know about other clothing stores which are already present in nearby places and about their ratings. When we identify the places which does not have much of clothing stores, it would be good to choose that place.

2. Data Requirements:

- The Data required will be collected from Wikipedia.
- https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M_.
- The data consists of postal codes and the respective places.
- Some cleaning process will be done in order to make the data clear and usable.
 - *Ignore cells with a borough that is Not assigned
 - *Combining rows which has more than one neighborhood one postal code area
 - *Getting the latitude and Longitude values and assigning it to a new columns in Dataframe
- Using Foursquare API, the neighborhoods and venues in the neighborhoods will be discovered. Then the number of clothing store in each venue will be taken into account.
- Using Clustering algorithms, the clusters will be formed in the neighborhoods.
- Finally, the folium library is used to visualize the clusters. Based on the clusters formed, prediction can be done as where the demand is high to open a clothing store.